#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Solomon Steiner, Robert Feldstein, Huiling Lian, Christopher A. Rhodes, and

Gregory S. Shen

Serial No.:

Continuation of 10/211,215

Art Unit:

Not Yet Assigned

Filed:

November 12, 2003

Examiner:

Not Yet Assigned

For:

METHOD FOR DRUG DELIVERY TO THE PULMONARY SYSTEM

Assistant Commissioner for Patents Washington, D.C. 20231

### INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including five (5) pages of Form PTO-1449 and copies of sixteen (16) documents cited therein. All of the documents cited below were cited by or submitted to the Patent Office in Application Serial No. 08/441,378, filed May 15, 1995, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however. Copies of the newly cited documents, which are identified with an asterisk (\*), are enclosed.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

U.S.S.N.:

Continuation of 10/211,215

Filed: November 12, 2003 INFORMATION DISCLOSURE STATEMENT

### U.S. Patents

Number	Issue Date	Patentee	Class/Subclass
3,906,950	09-23-1975	Cocozza	128/266
3,921,637	11-25-1975	Bennie, et al.	128/266
4,272,398	06-09-1981	Jaffe	427/213.31
4,861,627	08-29-1989	Mathiowitz	427/213.31
5,145,684	09-08-1992	Liversidge, et al.	424/489
5,260,306	11-09-1993	Boardman, et al.	424/45
5,352,461	10-04-1994	Feldstein, et al.	424/493
*5,458,135	10-17-1995	Patton, et al.	128/200.14
5,492,112	02-20-1996	Mecikalski, et al.	128/203.15
5,577,497	11-26-1996	Mecikalski, et al.	128/203.15
5,653,961	08-05-1997	McNally, et al.	424/45
*5,658,878	08-19-1997	Bäckström, et al.	514/3
5,740,794	04-21-1998	Smith, et al.	128/203.15
*5,747,445	05-05-1998	Bäckström, et al.	514/4
5,785,049	07-28-1998	Smith, et al.	128/203.15
5,874,064	02-23-1999	Edwards, et al.	424/46
5,901,703	05-11-1999	Ohki, et al.	128/203.12
*5,952,008	09-14-1999	Bäckström, et al.	424/499
*5,997,848	12-07-1999	Patton, et al.	424/46

# **Foreign Documents**

Number	Publication Date	<u>Patentee</u>	Country
0 257 915	02-03-1988	Innovata Biomed Ltd.	EP
*2 240 337	07-31-1991	National Research	GB
		Development Corporation	•
*2-149545	02-12-1992	Taisho Pharmaceutical Co.	JP
WO 91/04011	04-04-1991	Riker Laboratories Inc.	PCT
WO 92/08509	05-29-1992	Minnesota Mining and	PCT
		Manufacturing Company	
*WO 93/02712	02-18-1993	Danbiosyst UK Limited	PCT
WO 93/18754	09-30-1993	Pharmaceutical Discovery	PCT
		Corporation	

## **Publications**

BENITA, "Characterization of Drug-Loaded Poly(d,l-lactide) Microspheres," J. Pharm. Sci., 73: 1721-1724 (1984).

U.S.S.N.: Continuation of 10/211,215

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- \*BENSCH, et al., "Absorption of intact protein molecules across the pulmonary air-tissue barrier," *Science* 156: 1204-1206 (1967).
- \*ELLIOTT, et al., "Parenteral absorption of insulin from the lung in diabetic children," Austr. Paediatr. J. 23: 293-297 (1987).
- GUPTA, "Contemporary Approaches in Aerosolized Drug Delivery to the Lung," *J. Controlled Release*, 17(2): 127-147 (1991).
- \*HEYDER, "Alveolar deposition of inhaled particles in humans," Am. Ind. Hyg. Assoc. J. 43(11): 864-866 (1982).
- KATCHALSKI, "Synthesis of Lysine Anhydride," J. Amer. Chem. Soc., 68: 879-880 (1946).
- \*KOMADA, et al., "Intratracheal delivery of peptide and protein agents: absorption from solution and dry powder by rat lung," *J. Pharm. Sci.* 83(6): 863-867 (1994).
- KOPPLE, "A Convenient Synthesis of 2,5-Piperazinediones," J. Org. Chem., 33(2): 862-864 (1968).
  - LIM, "Microencapsulation of Living Cells and Tissues," J. Pharm. Sci., 70: 351-354 (1981).
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- MATHIOWITZ, "Polyanydride Microspheres. IV. Morphology and Characterization of Systems Made by Spray Drying," *J. Appl. Polymer Sci.*, 45: 125-134 (1992).
  - MOREN, Aerosols in Medicine, (2nd ed.), Elsevier, pp. 321-350.
- \*OKUMURA, et al., "Intratracheal delivery of insulin. Absorption from solution and aerosol by rat lung," *Int. J. Pharmaceuticals* 88: 63-73 (1992).
- \*PATTON & PLATZ, "Routes of Delivery: Case Studies. Pulmonary delivery of peptides and proteins for systemic action," Adv. Drug. Del. Rev. 8: 179-196 (1992).

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SALIB, "Utilization of Sodium Alginate in Drug Microencapsulation," *Pharazeutische Industrie*, 40(11a): 1230-1234 (1978).

SAWHNEY, "Bioerodible Hydrogels Based on Photopolymerized Poly(ethylene glycol)-co-poly(a-hydroxy acid) Diacrylate Macromers," *Macromolecules*, 26: 581-587 (1993).

\*WIGLEY, et al., "Insulin across respiratory mucosae by aerosol delivery," *Diabetes* 20(8): 552-556 (1971).

WITCHERT, "Low Molecular Weight PLA: A Suitable Polymer for Pulmonary Administered Microparticles," *J. Microencapsulation*, 10(2): 195-207 (1993).

\*YOSHIDA, et al., "Absorption of insulin delivered to rabbit trachea using aerosol dosage form," *J. Pharm. Sci.* 68(5): 670-671 (1979).

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INFORMATION DISCLOSURE STATEMENT

### Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

Patrea L. Pabst

Reg. No. 31,284

Dated: November 12, 2003

**HOLLAND & KNIGHT LLP** One Atlantic Center 1201 West Peachtree Street, N.E. **Suite 2000** Atlanta, Georgia 30309-3400 404-817-8473 FAX 404-817-8588 www.hklaw.com

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Substitute for form 1449A/PTO	Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	Continuation of 10/211,21		
(use as many sheets as necessary)	Filing Date	November 12, 2003		
	First Named Inventor	Solomon Steiner		
	Group Art Unit			
	Examiner Name			
1 of 5	Attorney Docket Number	PDT 103 CON (3)		

			U.S. PATENT DOCUM	IENTS	
Examiner Initials*		US Patent Document	Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
		3,906,950	Cocozza	09-23-1975	
		3,921,637	Bennie, et al.	11-25-1975	
		4,272,398	Jaffe	06-09-1981	
		4,861,627	Mathiowitz	08-29-1989	
		5,145,684	Liversidge, et al.	09-08-1992	
		5,260,306	Boardman, et al.	11-09-1993	
		5,352,461	Feldstein, et al.	10-04-1994	
		5,458,135	Patton, et al.	10-17-1995	
		5,492,112	Mecikalski, et al.	02-20-1996	
		5,577,497	Mecikalski, et al.	11-26-1996	
	-	5,653,961	McNally, et al.	08-05-1997	
		5,658,878	Bäckström, et al.	08-19-1997	
		5,740,794	Smith, et al.	04-21-1998	
		5,747,445	Bäckström, et al.	05-05-1998	
		5,785,049	Smith, et al.	07-28-1998	

			F	OREIGN PATENT DOCUMENT	'S		
 Cite No.1		Foreign Patent Docum	nent	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
	Office.3	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	EP	0 257 915		Innovata Biomed Ltd.	02-03-1988		
	GB	2 240 337		National Research Development Corporation	07-31-1991		
	JP	2-149545		Taisho Pharmaceutical Co.	02-12-1992		<u> </u>
	PCT	WO 91/04011		Riker Laboratories Inc.	04-04-1991		
	PCT	WO 92/08509		Minnesota Mining and Manufacturing Company	05-29-1992		
	PCT	WO 93/02712		Danbiosyst UK Limited	02-18-1993		

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Assistant Commission for Patent, Washington, DC 20231.

PDT 103 CON (3) 078374/00032

<sup>&</sup>lt;sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant to place a check mark here if English language Translation is attached.

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	ST	ATEME	TION DISCLOSURE NT BY APPLICANT  ny sheets as necessary)	Application Number	Continuation of 10/211,215	
		,	•	Filing Date	November 12, 2003	
				First Named Inventor	Solomon Steiner	
				Group Art Unit		
				Examiner Name		
Sheet	2	of	5	Attorney Docket Number	PDT 103 CON (3)	

			U.S. PATENT DOCUM	IENTS	
Examiner Initials*	Cite No.¹	US Patent Document	Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
		5,874,064	Edwards, et al.	02-23-1999	
		5,901,703	Ohki, et al.	05-11-1999	
		5,952,008	Bäckström, et al.	09-14-1999	
		5,997,848	Patton, et al.	12-07-1999	
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Examiner Initials*	Cite No.1			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>	
		Office.3	Number⁴	Kind Code <sup>5</sup> (if known)				
		PCT	WO 93/18754		Pharmaceutical Discovery Corporation	09-30-1993		
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Patent and Trademark Office: U.S. DEPARTMENT OF	COMMERCE

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			First Named Inventor	Solomon Steiner	
			Group Art Unit		
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		OTHER ART NON PATENT LITERATURE DOCUMENTS	1 =1
Examiner's	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	T <sup>2</sup>
Initials*	No.	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	
		publisher, city and/or country where published	
		BENITA, "Characterization of Drug-Loaded Poly(d,I-lactide) Microspheres," J. Pharm. Sci., 73: 1721-1724 (1984).	
	•	BENSCH, et al., "Absorption of intact protein molecules across the pulmonary air-tissue barrier," Science 156: 1204-1206 (1967).	
	-	ELLIOTT, et al., "Parenteral absorption of insulin from the lung in diabetic children," Austr. Paediatr. J. 23: 293-297 (1987).	
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	•	HEYDER, "Alveolar deposition of inhaled particles in humans," Am. Ind. Hyg. Assoc. J. 43(11): 864-866 (1982).	
		KATCHALSKI, "Synthesis of Lysine Anhydride," <i>J. Amer. Chem. Soc.</i> , 68: 879-880 (1946).	
<del></del>		KOMADA, et al., "Intratracheal delivery of peptide and protein agents: absorption from solution and dry powder by rat lung," J. Pharm. Sci. 83(6): 863-867 (1994).	
		KOPPLE, "A Convenient Synthesis of 2,5-Piperazinediones," J. Org. Chem., 33(2): 862-864 (1968).	
	·	LIM, "Microencapsulation of Living Cells and Tissues," <i>J. Pharm. Sci.</i> , 70: 351-354 (1981).	-
		MATHIOWITZ, "Morphology of Polyanhydride Microsphere Delivery Systems," Scanning Microscopy, 4: 329-340 (1990).	-

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	Substitute for form 1449A/PTO			Complete if Known		
	STATE	EMENT	DN DISCLOSURE BY APPLICANT heets as necessary)	Application Number	Continuation of 10/211,215	
				Filing Date	November 12, 2003	
				First Named Inventor	Solomon Steiner	
				Group Art Unit		
				Examiner Name		
Sheet	4	of	5	Attorney Docket Number	PDT 103 CON (3)	

	-	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the
Examiner's Initials*	Cite No. <sup>1</sup>	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		MATHIOWITZ, "Novel Microcapsules for Delivery Systems," Reactive Polymers, 6: 275-283 (1987).
		MATHIOWITZ, "Polyanhydride Microspheres As Drug Carriers I. Hot-Melt Microencapsulation," J. Controlled Release, 5: 13-22 (1987).
		MATHIOWITZ, "Polyanhydride Mocrospheres as Drug Carriers. II. Microencapsulation by Solvent Removal," J. Appl. Polymer Sci., 35: 755-774 (1988).
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		PATTON & PLATZ, "Routes of Delivery: Case Studies. Pulmonary delivery of peptides and proteins for systemic action," Adv. Drug. Del. Rev. 8: 179-196 (1992).
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		WIGLEY, et al., "Insulin across respiratory mucosae by aerosol delivery," Diabetes 20(8): 552-556 (1971).

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Signature	Considered	

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant to place a check mark here if English language Translation is attached.

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Patent and Trademark Office: U.S. DEPARTMENT (	OF COMMERCE

	Substitute for form 1449A/PTO			Complete if Known		
	STAT	EMENT 8	DISCLOSURE Y APPLICANT ets as necessary)	Application Number	Continuation of 10/211,215	
				Filing Date	November 12, 2003	
				First Named Inventor	Solomon Steiner	
				Group Art Unit		
				Examiner Name		
Sheet	5	of	5	Attorney Docket Number	PDT 103 CON (3)	

Initials*  No. item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published  WITCHERT, "Low Molecular Weight PLA: A Suitable Polymer for Pulmonary Administered Microparticles," <i>J. Microencapsulation</i> , 10(2): 195-207 (1993)  YOSHIDA, et al., "Absorption of insulin delivered to rabbit trachea using aerosol dosage form," <i>J. Pharm. Sci.</i> 68(5): 670-671 (1979).	T <sup>2</sup>	OTHER ART NON PATENT LITERATURE DOCUMENTS  aminer's Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the					
publisher, city and/or country where published  WITCHERT, "Low Molecular Weight PLA: A Suitable Polymer for Pulmonary Administered Microparticles," <i>J. Microencapsulation</i> , 10(2): 195-207 (1993  YOSHIDA, et al., "Absorption of insulin delivered to rabbit trachea using aerosol dosage form," <i>J. Pharm. Sci.</i> 68(5): 670-671 (1979).		Initials* No.1 item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),					
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Examiner's	Date	
Signature	Considered	

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PDT 103 CON (3) 078374/00032

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